Asset Condition Monitoring can help transform your business so you can rise to your digital future.

• Less-than-optimal equipment can lower useful lifespans and asset utilization
• Limited visibility of equipment degradation can lead to costly replacement

In a manufacturing plant, equipment downtime can impact scheduled production time. Sending device health indicators to the cloud lets operations staff know the health and status of equipment to prevent productivity and efficiency losses.

Asset condition monitoring can increase visibility into your device fleet to maximize and extend the life of your assets

Monitor equipment, machines, and vehicles
Fully exploit your equipment investments

AWS IoT provides a complete portfolio of software and services for asset condition monitoring

Using AWS IoT software and services, industrial companies can easily and securely connect and manage every thing to reason on top of that data and truly solve business problems.

Partners play an important role in developing, planning, and implementing IoT projects. Our AWS IoT partners help customers bring together solutions with the necessary hardware and AWS services to solve industrial business challenges. Learn more about our AWS IoT Partner Community.

Asset Condition Monitoring in Action with AWS IoT

• Understand performance and health
• Identify degradation and remaining useful life
• Smarter asset management decisions
• Reduced maintenance time and labor costs

Leading to improved reliability, safety, efficiency, and cost savings

Difficult to capture equipment health data includes

- Temperature
- Vibration
- Error codes
- Pressure
- Velocity

Without early warnings of potential degradation, organizations have no way to

Hidden problems and guesswork can incur extra expenses

Difficult-to-capture machine health data includes

- Often requires physical inspection to gather data

With asset condition monitoring, you can

AWS IoT Core
Secure device connectivity and messaging

AWS IoT Device Defender
Fleet audit and protection

AWS IoT Analytics
IoT data analytics and intelligence, including pre-built templates

AWS IoT Analytics through integration with Amazon QuickSight
Dashboards visualize asset health and performance on the factory floor

AWS IoT Greengrass
Bring local compute, messaging, data caching, sync, and ML inference capabilities to edge devices

Amazon FreeRTOS
Software for small, low-powered industrial devices like sensors to the cloud or a local edge device

AWS IoT SiteWise
Collect, structure, and search industrial IoT data

AWS IoT Events
Detect and respond to events from IoT sensors and applications

AWS IoT Things Graph
Connect devices and web services

AWS IoT Device Management
Fleet onboarding and management for industrial devices across multiple worksites in various regions